

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 755 (EDGEWOOD ROAD) AND HANSON ROAD IN HARFORD COUNTY, MARYLAND. MD 755 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 755 APPROACHES OPERATING CONCURRENTLY AND THE HANSON ROAD APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING WILL BE PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 755 APPROACHES.

ALTERNATE PEDESTRIAN PHASES WILL BE PROVIDED ACROSS BOTH LEGS OF MD 755 AND HANSON ROAD.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

TYPICAL INTERSECTION, STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS EDGEWOOD ROAD AT HANSON ROAD" *

WALK: RAPID TICK

WALK: "WALK SIGN ON TO CROSS EDGEWOOD ROAD"

WAIT: "WAIT TO CROSS HANSON ROAD AT EDGEWOOD ROAD" *

WALK: RAPID TICK

WALK: "WALK SIGN ON TO CROSS HANSON ROAD"

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS * 10'

** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE

ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER, VIDEO INTERFACE EQUIPMENT (1-4 CAMERAS), INTERSECTION MONITOR WITH BATTERY BACKUP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE	QUANTITY	DESCRIPTION
963010	1 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
971017	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH INTERSECTION MONITOR HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
900000	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
973023	51 S.F.	SHEET ALUM:NUM SIGNS TO CONSIST OF : - 4 EACH D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - MAST ARM MOUNT - 4 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS EDGEWOOD ROAD" - 4 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS HANSON ROAD"

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

MR. STEVE MARGISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. MIKE PASQUARIELLO
ASST. DISTRICT UTILITY ENGINEER
PHONE: (410) 321-2841

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE	QUANTITY	DESCRIPTION
203030	13 C.Y.	TEST PIT EXCAVATION
585621	360 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
585625	100 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
801004	21 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
802105	9 EACH	ADJUST EXISTING HANDHOLE
802501	650 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	50 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805135	160 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805140	90 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805155	235 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
805160	5 L.F.	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
807202	1 EACH	METERED SERVICE PEDESTAL
810550	2 EACH	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE
811001	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	51 S.F.	INSTALL OVERHEAD SIGN
816001	4 EACH	VIDEO DETECTION CAMERA
816005	4 EACH	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
816110	1 EACH	TRAFFIC SIGNAL CABINET NEMA SIZE 6
818004	8 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
818021	1 EACH	STEEL POLE WITH TWIN 50 FOOT MAST ARM
818030	1 EACH	STEEL POLE WITH SINGLE 38 FOOT MAST ARM
818036	1 EACH	STEEL POLE WITH SINGLE 50 FOOT MAST ARM
831010	1 EACH	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
832017	60 L.F.	CABLE - 1 CONDUCTOR, NO 4 AWG, TYPE USE, 600V
837001	14 EACH	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	32 EACH	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860292	10 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861105	1005 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1045 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	1390 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861116	160 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
862102	100 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
866103	1 EACH	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
871202	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
800000	8 EACH	16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	8 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	1 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT
800000	1 LS	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
800000	12 EACH	8 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION

MAINTENANCE OF TRAFFIC

THE FOLLOWING MINIMUM TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.02-01 (SHOULDER WORK)	STANDARD NO. MD-104.02-13 (LEFT TURN BAY CLOSURE)
STANDARD NO. MD-104.02-03 (LEFT LANE CLOSURE)	STANDARD NO. MD-104.02-15 (INTERSECTION LEFT LANE, TURN BAY)
STANDARD NO. MD-104.02-05 (RIGHT LANE CLOSURE)	
STANDARD NO. MD-104.02-07 (CENTER LANE CLOSURE)	

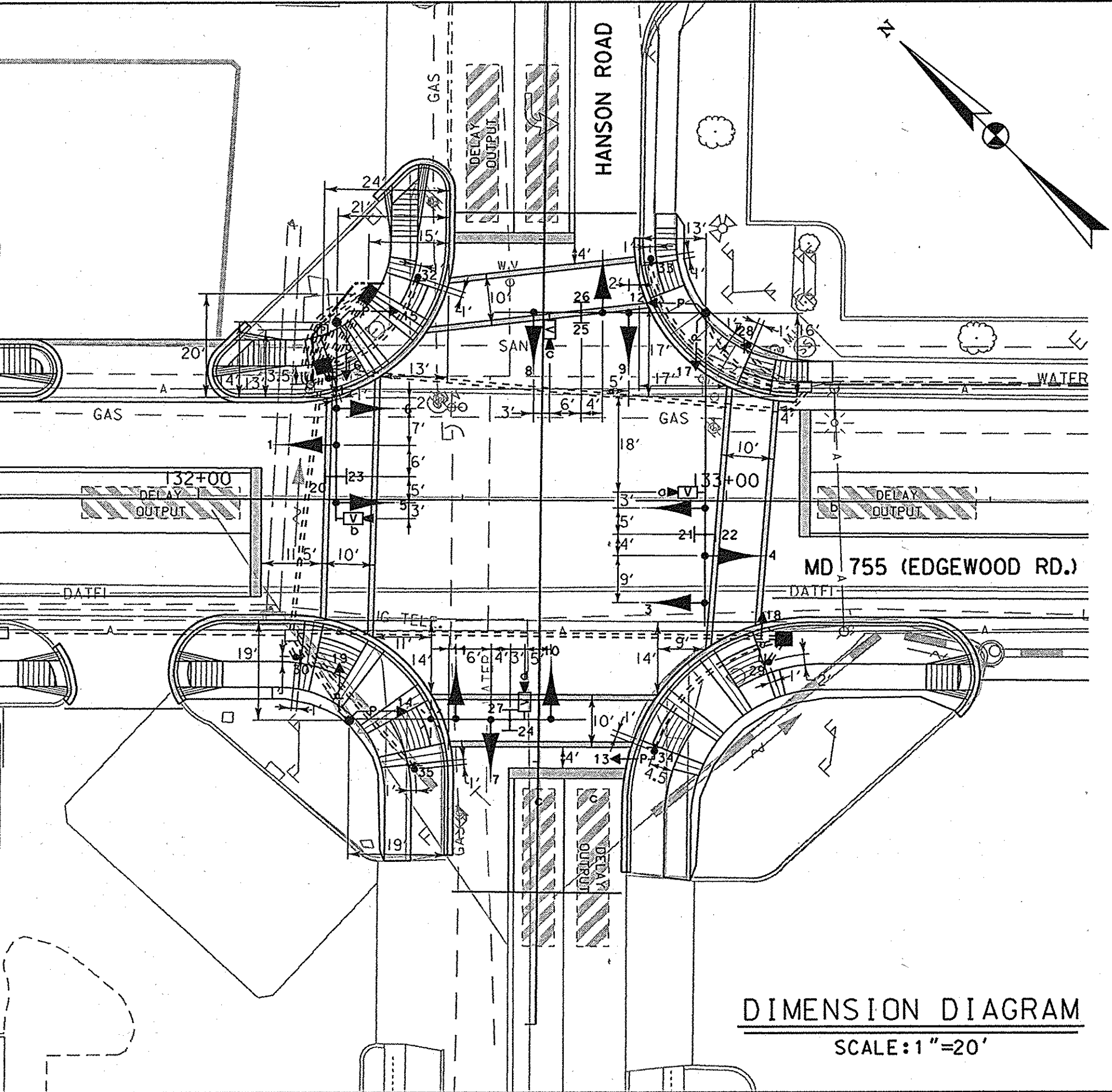
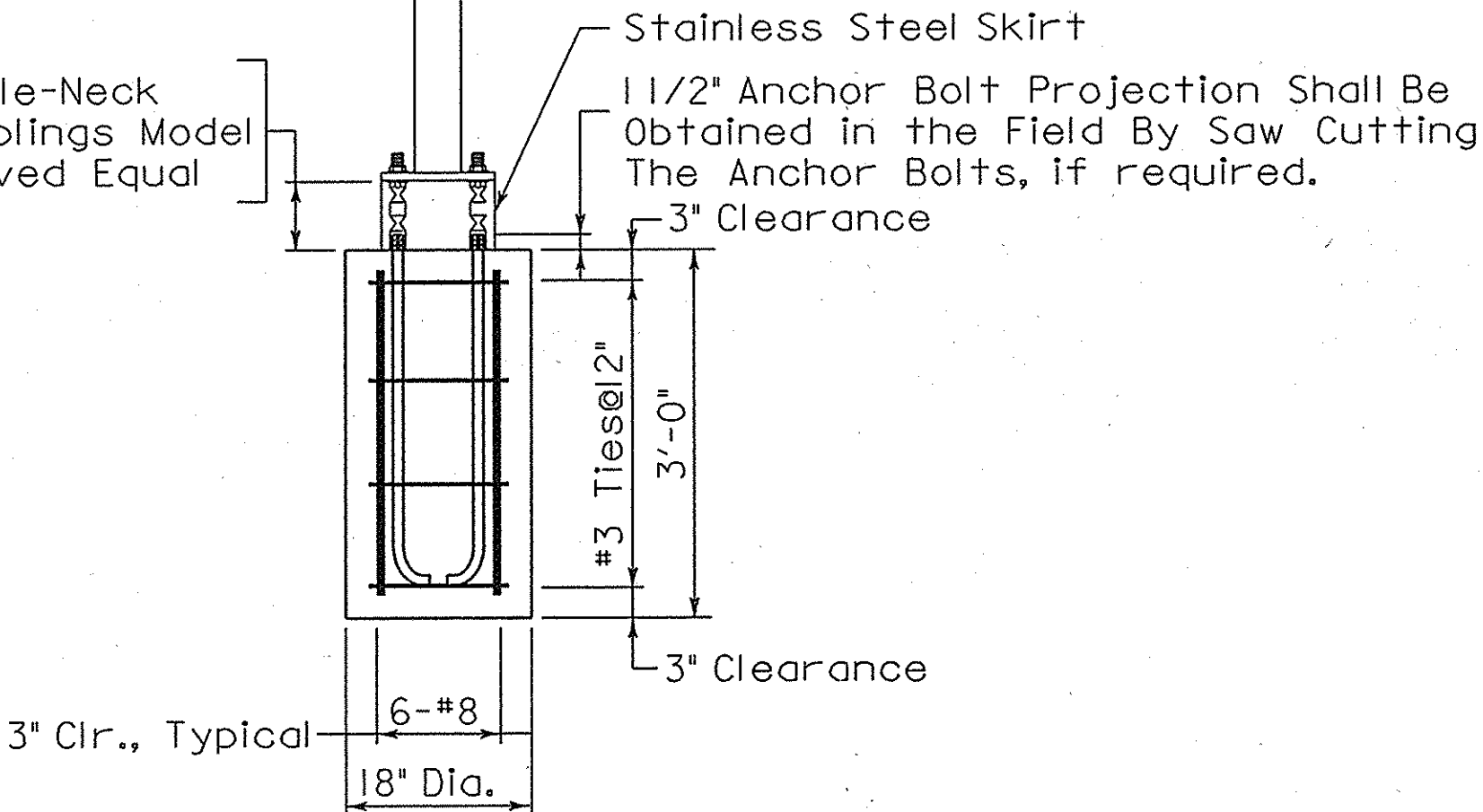
EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

MODIFIED PEDESTAL POLE FOUNDATION

(4) 6 11/16" Double-Neck Pole-Safe Couplings Model 4100 or Approved Equal



DIMENSION DIAGRAM
SCALE: 1"=20'



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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 755 (EDGEWOOD RD) AND HANSON RD

DRAWN BY: S. BLOSS
CHECKED BY: N. LEARY
SCALE: NONE
DATE: 1/16/2008

F.A.P. NO.
S.H.A. NO.
COUNTY: HARFORD
LOG MILE:

TS NO.
371C
T.I.M.S. NO.
F195

SHEET NO.

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